

Measuring method and circuitry for the determination of the trip current of residual current breakers

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Inventor: ZIEGLER HERBERT; CLEVER CARL W;
KINDERMANN ROBERT
Applicant: ASEA BROWN BOVERI (DE)
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DE2658185
DE3421873

Abstract of EP0368030

The trip current (I_{Δ}) of a residual-current breaker is to be measured with the aid of a rising test current (I_K). At the same time, the same two-terminal measuring device is to be used for measuring the contact voltage (U_B) occurring at the tripping time (t_A). Initially, the contact voltage (U_{BN}) referred to the rated fault current ($I_{\Delta N}$) is measured and then the test current (I_K) is increased in predetermined steps. The steps are counted. The number of steps at the tripping time (t_A) corresponds, referred to the total number of steps, both to the trip current (I_{Δ}) and to the associated contact voltage (U_B). The measurement is applied in measuring and test instruments which are equipped with a computer.

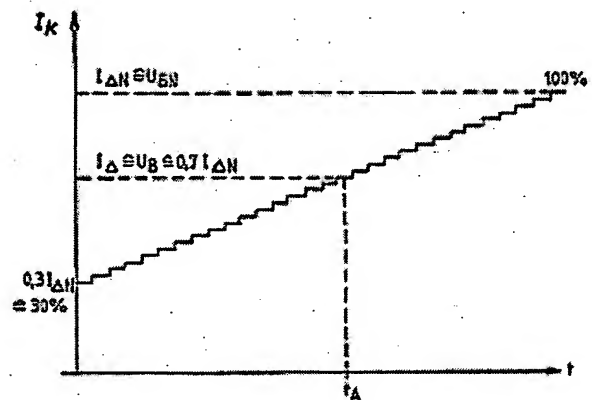


Fig. 4

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